

IN THE SPECIFICATION

Please replace the paragraph beginning at page 3, line 15 and ending at page 3, line 19 with the following paragraph:

A1
In order to achieve the above objects, the resin solution of the present invention is prepared by mixing a main solution selected from epoxy resin, urethane resin, and phenoxy resin melamine resin, colloidal silica, polytetrafluoroethylene ("PTFE")-based wax, and at least one metallic powder selected from Al, Zn, Mn, Co, Ni, Sn, and SnO₂;

Please replace the paragraph beginning at page 3, line 20 and ending at page 4, line 3 with the following paragraph:

A2
The main solution used in the resin solution of the present invention is a water-soluble phenoxy resin with a number average molecular weight of 25,000 – 50,000. Melamine resin is added as a hardener and the amount is 2 – 15 phr on the basis of the main solution. Also, an amount of colloidal silica is 10 – 20 phr on the basis of the main solution, an amount of PTFE wax is 2 - 10 phr on the basis of the main solution, and an amount of metallic powder is 5 – 70 phr on the basis of the main solution.

Please replace the paragraph beginning at page 4, line 4 and ending at page 4, line 6 with the following paragraph:

A3
The PTFE-based wax added to the resin solution of the present invention is preferably a powder type and particle size of 0.1 - 3 μ m. In addition, particle size of the metallic powder is 0.5 - 5 μ m.

Please replace the paragraph beginning at page 9, line 20 and ending at page 9, line 21 with the following paragraph:

Am

Wax added into resin solution serves as a lubricant to metallic powder. The wax that is preferable to use PTFE.

Please replace the paragraph beginning at page 9, line 22 and ending at page 10, line 2 with the following paragraph:

As

Comparing the prior ethylene-based wax, PTFE-based wax has an excellent slip characteristic of resin coating. In addition, PTFE-based wax can cover the metallic powder protruded onto resin coating so that it can prevent friction between dye and resin coating while press processing.

Please replace the paragraph beginning at page 10, line 3 and ending at page 10, line 7 with the following paragraph:

Ab

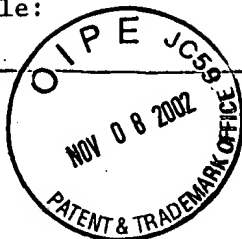
The content of PTFE-based wax is preferably 2 – 10 phr based on phenoxy resin content. If content of PTFE wax is less than 2 phr, it is too small to improve surface friction coefficient. On the contrary, if content of PTFE wax is more than 10 phr, coating adhesion with paint which can be applied into upper resin layer decreases.

Please replace the paragraph beginning at page 10, line 8 and ending at page 10, line 13 with the following paragraph:

A7 A particle size of PTFE wax added into resin solution has important effect. A particle size of PTFE wax is preferably 0.1 - 3 μ m. If the wax size is less than 0.1 μ m, the ball-bearing effect based on wax theory decreases in the resin solution. On the contrary, if the wax size is more than 3 μ m, the stability of the resin solution decreases and it prevents metallic powder from forming current structure so that conductivity decreases.

On page 17, please delete Table 1 and replace it with the following table:

Table 1



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No.	wax			Quality measurement			
	Type	Particle size (μm)	Amount (phr)	Friction coefficient	Coating exfoliation	Solution stability	Adhesion
Com. 1	-	-	0	x	△	⊙	⊙
Com. 2	PTFE	0.1	1	□	□	⊙	⊙
Ex. A			2	⊙	⊙	⊙	⊙
Ex. B			5	⊙	⊙	⊙	⊙
Ex. C			10	⊙	⊙	⊙	⊙
Com. 3			15	⊙	⊙	⊙	x
Com. 4		0.3	1	□	□	⊙	⊙
Ex. D			2	⊙	⊙	⊙	⊙
Ex. E			5	⊙	⊙	⊙	⊙
Ex. F			10	⊙	⊙	⊙	⊙
Com. 5			15	⊙	⊙	⊙	△
Com. 6		1.5	1	□	0	⊙	⊙
Ex. G			2	⊙	⊙	⊙	⊙
Ex. H			10	⊙	⊙	⊙	⊙
Com. 7			15	⊙	⊙	⊙	x
Com. 8		3	1	□	0	⊙	⊙
Ex. I			2	⊙	⊙	⊙	⊙
Ex. J			10	⊙	⊙	⊙	⊙
Com. 9		5	15	⊙	⊙	⊙	△
Com. 10			1	□	0	0	⊙
Com. 11			2	⊙	⊙	□	⊙
Com. 12			10	⊙	⊙	△	⊙
Com. 13			15	⊙	⊙	x	x
Com. 14	Ethylene	0.1	1	□	△	⊙	⊙
Com. 15			2	0	□	⊙	⊙
Com. 16			5	⊙	□	⊙	⊙
Com. 17			10	⊙	0	⊙	⊙
Com. 18			15	⊙	0	⊙	△
Com. 19		0.3	1	0	□	⊙	⊙
Com. 20			2	0	□	⊙	⊙
Com. 21			5	⊙	□	⊙	⊙
Com. 22			10	⊙	0	⊙	⊙
Com. 23			15	⊙	0	⊙	△

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